



Express Mail Label No. EV957645524US Dated: June 7, 2007

Docket No.: MRI-062
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
John E. Monahan *et al.*

Application No.: 10/645756

Confirmation No.: 8064

Filed: August 20, 2003

Art Unit: 1643

For: COMPOSITIONS, KITS, AND METHODS
FOR IDENTIFICATION, ASSESSMENT,
PREVENTION, AND THERAPY OF
CERVICAL CANCER

Examiner: S. L. Rawlings

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

DECLARATION PURSUANT TO 37 CFR §1.132

Dear Sir:

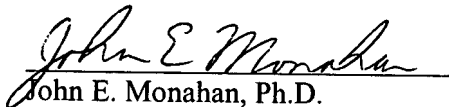
We, John E. Monahan, a citizen of the United States of America residing at 942 West Street, Walpole, Massachusetts 02081, Yan Chen, a citizen of China residing at 26A Plymouth Street, Apartment 2, Cambridge, Massachusetts 02141, and Xumei Zhao, a citizen of the United States of America residing at 6 Wildwood Lane, Burlington, MA 01803, hereby declare as follows:

(1) We are joint inventors of the subject matter claimed in the above-identified patent application.

(2) We are named inventors, along with Robert Schlegel, Shubhangi Kamatkar, Manjula Gannavarapu, Karen Glatt and Sebastian Hoersch, in U.S. Patent Application Publication No. 2003/0087270A1.

(3) We invented the subject matter disclosed in U.S. Patent Application Publication No. 2003/0087270A1 which relates to the invention claimed in the above-identified patent application. Robert Schlegel, Shubhangi Kamatkar, Manjula Gannavarapu, Karen Glatt, and Sebastian Hoersch are *not* co-inventors of the subject matter claimed in the above-identified patent application. Any disclosure contained in U.S. Patent Application Publication No. 2003/0087270A1 which relates to the invention claimed in the above-identified patent application was derived from us rather than the other named inventors in U.S. Patent Application Publication No. 2003/0087270A1 notwithstanding the inventorship of the published application. Thus, the foregoing disclosure does not constitute an invention "by another."

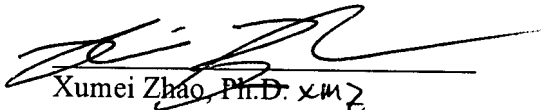
We hereby declare that all statements made herein of our knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.


John E. Monahan, Ph.D.

1 June 2007
Date

Yan Chen, Ph.D.

Date


Xumei Zhao, Ph.D. XMZ

June 1, 2007
Date



Express Mail Label No. _____	Dated: _____
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Docket No.: MRI-062
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
John E. Monahan *et al.*

Application No.: 10/645756

Confirmation No.: 8064

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Dear Sir:

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(1) We are joint inventors of the subject matter claimed in the above-identified patent application.

(2) We are named inventors, along with Robert Schlegel, Shubhangi Kamatkar, Manjula Gannavarapu, Karen Glatt and Sebastian Floersch, in U.S. Patent Application Publication No. 2003/0087270A1.

Application No.: 10/645756

Docket No.: MRI-062

(3) We invented the subject matter disclosed in U.S. Patent Application Publication No. 2003/0087270A1 which relates to the invention claimed in the above-identified patent application. Robert Schlegel, Shubhangi Kamatkar, Manjula Gannavarapu, Karen Glatt, and Sebastian Hoersch are *not* co-inventors of the subject matter claimed in the above-identified patent application. Any disclosure contained in U.S. Patent Application Publication No. 2003/0087270A1 which relates to the invention claimed in the above-identified patent application was derived from us rather than the other named inventors in U.S. Patent Application Publication No. 2003/0087270A1 notwithstanding the inventorship of the published application. Thus, the foregoing disclosure does not constitute an invention "by another."

We hereby declare that all statements made herein of our knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

John B. Monahan, Ph.D.

Date

Yim Chen, Ph.D.

Date

Xumei Zhao, Ph.D.

Date

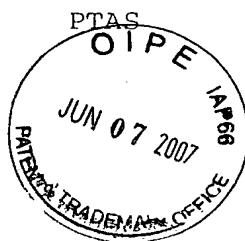


UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 23, 2005

LAHIVE & COCKFIELD, LLP
GIULIO A. DECONTI, JR.
28 STATE STREET
BOTON, MA 02109



102845243A

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 09/23/2004

REEL/FRAME: 015813/0793
NUMBER OF PAGES: 8

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: MRI-062

ASSIGNOR:
MONAHAN, JOHN E.

DOC DATE: 06/18/2004

ASSIGNOR:
ZHAO, XUMEI

DOC DATE: 07/16/2004

ASSIGNOR:
CHEN, YAN

DOC DATE: 09/10/2004

ASSIGNOR:
GLATT, KAREN

DOC DATE: 06/24/2004

ASSIGNOR:
KAMATKAR, SHUBHANGI

DOC DATE: 06/22/2004

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.
75 SIDNEY STREET
CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 10645756

FILING DATE: 08/20/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT,
PREVENTION, AND THERAPY OF CERVICAL CANCER

MARCUS KIRK, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

09-27-2004

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office



IT

102845243

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

John E. MONAHAN (06/18/2004), Xumei ZHAO (07/16/2004), Yan CHEN (09/10/2004), Karen GLATT (06/24/2004), and

Execution Dates: in parentheses after inventor name

Additional name(s) of conveying party(ies) attached? ☒ Yes ☐ No

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other

2. Name and address of receiving party(ies)

Name: MILLENNIUM PHARMACEUTICALS, INC.

Internal Address: _____

Street Address: _____

75 Sidney Street

City: Cambridge

State: Massachusetts

Country: United States of America Zip: 02139

Additional name(s) & address(es) attached: ☐ Yes ☒ No

4. Application or patent number(s):

A. Patent Application No.(s)

10/645756

☐ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Giulio A. DeConti, Jr.
LAHIVE & COCKFIELD, LLP

Internal Address: Atty. Dkt.: MRI-062

Street Address: 28 State Street

City: Boston

State: MA Zip: 02109

Phone Number: (617) 227-7400

Fax Number: (617) 742-4214

Email Address: _____

6. Total number of applications and patents involved:

14

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information:

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 12-0080
Authorized User Name Giulio A. DeConti, Jr.

9. Signature.

DeAnn F. Smith
Signature

September 21, 2004
Date

DeAnn F. Smith - 36,683
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

8

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: MS Assignment Recordation Services, Director of the US Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: September 21, 2004

Signature: DeAnn F. Smith (DeAnn F. Smith)

(continued)

Additional Conveying Party(ies)/Execution Date(s) (1. Continued):

Shubhangi KAMATKAR (06/22/2004)

Additional Assignees (2. Continued):

Assignee Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ Country: _____ Zip: _____

Assignee Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ Country: _____ Zip: _____

Assignee Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ Country: _____ Zip: _____

Additional Applications and/or Patents (4. Continued):

Additional Patent Application Numbers

4A. Continued:

Additional Patent Numbers

4B. Continued:

Additional numbers attached?

☐

Yes

☐

No

ASSIGNMENT BY INVENTORS

WE, John E. MONAHAN; Xumei ZHAO; Yan CHEN; Karen GLATT; and Shubhangi KAMATKAR, of Walpole, Massachusetts; Wayland, Massachusetts; Acton, Massachusetts; Natick, Massachusetts; and Newton, Massachusetts, respectively, in consideration of One Dollar and other valuable consideration paid to us by

MILLENNIUM PHARMACEUTICALS, INC.

a Corporation of Delaware, having its principal place of business at 75 Sidney Street, Cambridge, Massachusetts 02139, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

MILLENNIUM PHARMACEUTICALS, INC.

its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT,
PREVENTION, AND THERAPY OF CERVICAL CANCER

described in an application

☐ Executed by us of even date herewith and about to be filed

or

☒ Application No. 10/645756, filed on August 20, 2003

This application claims the benefit of the following provisional application(s):

☒ Application No. 60/404,770, filed on August 20, 2002

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said Corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said Corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

And we do further hereby grant the attorneys/agents of Lahive & Cockfield, LLP, the power to insert on this Assignment the filing date and/or application number of said application.

John E. Monahan
John E. Monahan

Date: June 18, 2004

United States of America)
State of Massachusetts) ss.:
County of Middlesex)

On this 18th day of June, 2004 before me, the
the undersigned notary public, personally appeared John E. Monahan
(name of document signer), proved to me through satisfactory evidence of identification,
which was MA License # 536668360, to be the person whose name
is signed on the preceding or attached document in my presence.

Diana E. Gentile (official signature and seal of notary)

My commission expires 10/27/2006


Xumei Zhao

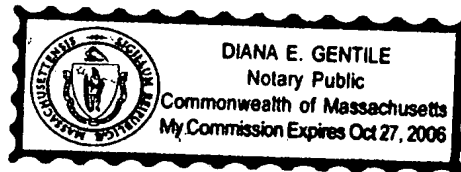
Date: 7/16/2004

United States of America)
State of Massachusetts) ss.:
County of Middlesex)

On this 16th day of July, 2004 before me, the
the undersigned notary public, personally appeared Xumei Zhao
(name of document signer), proved to me through satisfactory evidence of identification,
which was MA License # 213299591, to be the person whose name
is signed on the preceding or attached document in my presence.

Diana E. Gentile (official signature and seal of notary)

My commission expires October 27, 2006



Karen A Glatt
Karen Glatt

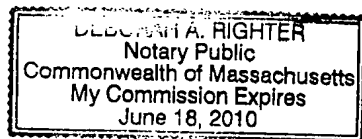
Date: 6/24/04

United States of America)
State of MA) ss.:
County of Middlesex)

On this 24th day of June, 2004 before me, the
the undersigned notary public, personally appeared Karen Glatt
(name of document signer), proved to me through satisfactory evidence of identification,
which was Driver's license - MA, to be the person whose name
is signed on the preceding or attached document in my presence.

[Signature] (official signature and seal of notary)

My commission expires 6/18/2010



Shubhangi Kamatkar
Shubhangi Kamatkar

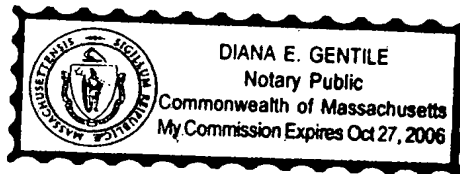
Date: 6/22/04

United States of America)
State of Massachusetts) ss.:
County of Middlesex)

On this 22nd day of June, 2004 before me, the
the undersigned notary public, personally appeared Shubhangi Kamatkar
(name of document signer), proved to me through satisfactory evidence of identification,
which was personally known, to be the person whose name
is signed on the preceding or attached document in my presence.

Diana E. Gentile (official signature and seal of notary)

My commission expires 10/27/2006



Yan Chen
Yan Chen

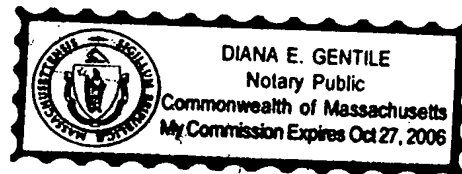
Date: 9/10/04

United States of America)
State of Massachusetts) ss.:
County of Middlesex)

On this 10th day of September, 2004 before me, the
the undersigned notary public, personally appeared Yan Chen
(name of document signer), proved to me through satisfactory evidence of identification,
which was MA Driver's License # 568587151, to be the person whose name
is signed on the preceding or attached document in my presence.

Diana E. Gentile (official signature and seal of notary)

My commission expires October 27, 2006





UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

SEPTEMBER 14, 2006

PTAS



103302433A

GIULIO A. DECONTI, JR.
LAHIVE & COCKFIELD, LLP
28 STATE STREET
BOSTON, MA 02109

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 08/25/2006

REEL/FRAME: 018253/0883
NUMBER OF PAGES: 11

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: MRI-035RCECN

ASSIGNOR:

SCHLEGEL, ROBERT

DOC DATE: 09/12/2002

ASSIGNOR:

CHEN, YAN

DOC DATE: 09/06/2002

ASSIGNOR:

ZHAO, XUMEI

DOC DATE: 09/10/2002

ASSIGNOR:

MONAHAN, JOHN E.

DOC DATE: 09/06/2002

ASSIGNOR:

KAMATKAR, SHUBHANGI

DOC DATE: 04/01/2004

ASSIGNOR:

GANNAVARAPU, MANJULA

DOC DATE: 09/09/2002

ASSIGNOR:

GLATT, KAREN

DOC DATE: 09/10/2002

ASSIGNOR:

HOERSCH, SEBASTIAN

DOC DATE: 09/16/2002

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.
40 LANDSDOWNE STREET
CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 11510530

PATENT NUMBER:

TITLE:

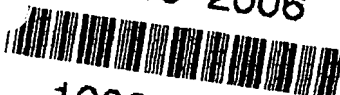
FILING DATE:

ISSUE DATE:

PAULA MCCRAY, EXAMINER
ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

09-06-2006

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office



103302433

To the Director of the U.S. Patent and Trademark Office: **FILED**

documents or the new address(es) below.

1. Name of conveying party(ies):

Robert SCHLEGEL (9/12/2002), Yan CHEN (9/6/2002), Xumei ZHAO (9/10/2002), John E. MONAHAN (9/6/2002),

Additional name(s) of conveying party(ies) attached? ☒ Yes ☐ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): in parentheses after inventor name

- ☒ Assignment ☐ Merger ☐ Change of Name
☐ Security Agreement ☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other

2. Name and address of receiving party(ies)

MILLENNIUM PHARMACEUTICALS, INC.

Name:

Internal Address:

Street Address:

40 Landsdowne Street

City: Cambridge

State: Massachusetts

Country: United States of America Zip: 02139

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

A. Patent Application No.(s)

This application

☒ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Giulio A. DeConti, Jr.
LAHIVE & COCKFIELD, LLP

Internal Address: Atty. Dkt.: MRI-035RCECN

Street Address: 28 State Street

City: Boston

State: MA Zip: 02109

Phone Number: (617) 227-7400

Fax Number: (617) 742-4214

Email Address:

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers
Expiration Date

b. Deposit Account Number 12-0080
Authorized User Name Giulio A. DeConti, Jr.

9. Signature:

Signature

August 25, 2006

Date

Maria Laccotripe Zacharakis, Ph.D., J.D. - 56,266

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 1

Express Mail Label No. EV 608875465 US Dated: August 25, 2006

Additional Conveying Party(ies)/Execution Date(s) (1. Continued):

Shubhangi KAMATKAR (4/1/2004), Manjula GANNAVARAPU (9/9/2002), Karen GLATT (9/10/2002),
and Sebastian HOERSCH (9/16/2002)

Additional Assignees (2. Continued):

Assignee Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ Country: _____ Zip: _____

Assignee Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ Country: _____ Zip: _____

Assignee Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ Country: _____ Zip: _____

Additional Applications and/or Patents (4. Continued):Additional Patent Application Numbers
4A. Continued:Additional Patent Numbers
4B. Continued:

Additional numbers attached?

☐ Yes☐ No

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):

Robert SCHLEGEL (9/12/2002), Yan CHEN
(9/6/2002), Xumei ZHAO (9/10/2002), John E.
MONAHAN (9/6/2002),

Additional name(s) of conveying party(ies) attached? ☒ Yes ☐ No

2. Nature of conveyance/Execution Date(s):

Execution Date(s): in parentheses after inventor name

- ☒ Assignment ☐ Merger ☐ Change of Name
☐ Security Agreement ☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

MILLENNIUM PHARMACEUTICALS,
INC.

Name: _____

Internal Address: _____

Street Address: _____

40 Landsdowne Street

City: _____ Cambridge

State: _____ Massachusetts

Country: _____ United States of America Zip: _____ 02139

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☒ This document is being filed together with a new application.

A. Patent Application No.(s)

This application

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: _____ Giulio A. DeConti, Jr.
LAHIVE & COCKFIELD, LLP

Internal Address: Atty. Dkt.: MRI-035RCECN

Street Address: 28 State Street

City: _____ Boston

State: _____ MA Zip: _____ 02109

Phone Number: _____ (617) 227-7400

Fax Number: _____ (617) 742-4214

Email Address: _____

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

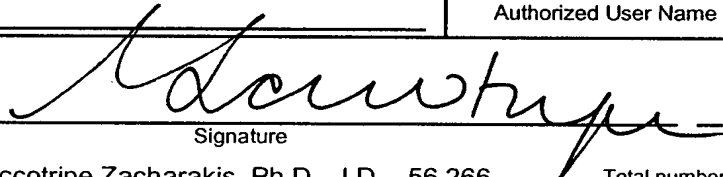
8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number _____ 12-0080

Authorized User Name _____ Giulio A. DeConti, Jr.

9. Signature:



August 25, 2006

Date

Maria Laccotripe Zacharakis, Ph.D., J.D. - 56,266

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

11

**RECORDATION FORM COVER SHEET
(continued)****Additional Conveying Party(ies)/Execution Date(s) (1. Continued):**

Shubhangi KAMATKAR (4/1/2004), Manjula GANNAVARAPU (9/9/2002), Karen GLATT (9/10/2002),
and Sebastian HOERSCH (9/16/2002)

Additional Assignees (2. Continued):

Assignee Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ Country: _____ Zip: _____

Assignee Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ Country: _____ Zip: _____

Assignee Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ Country: _____ Zip: _____

Additional Applications and/or Patents (4. Continued):

Additional Patent Application Numbers
4A. Continued:

Additional Patent Numbers
4B. Continued:

Additional numbers attached?

☐ Yes

☐ No

ASSIGNMENT

We, Robert Schlegel of Auburndale, Massachusetts, Yan Chen of Cambridge, Massachusetts, Xumei Zhao of Burlington, Massachusetts, John E. Monahan of Walpole, Massachusetts, Shubangi Kamatkar of Newton, Massachusetts, Manjula Gannavarapu of Acton, Massachusetts, Karen Glatt of Natick, Massachusetts, and Sebastian Hoersch of Arlington, Massachusetts, in consideration of One Dollar and other valuable consideration paid to us by

Millennium Pharmaceuticals, Inc.

a corporation of Delaware, having its principal place of business at 75 Sidney Street, Cambridge, MA 02109, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

Millennium Pharmaceuticals, Inc.

its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

**NOVEL GENES, COMPOSITIONS, KITS AND METHODS FOR IDENTIFICATION,
ASSESSMENT, PREVENTION, AND THERAPY OF CERVICAL CANCER**

described in an application

☐ executed by us of even date herewith and about to be filed

☒ Serial No. 10/171,311, filed on June 12, 2002

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this _____ day of _____, 2002.

By: _____
Robert Schlegel

State of _____)
County of _____)ss

Then personally appeared the above named Robert Schlegel and acknowledged the foregoing instrument to be his/her free act and deed, before me, this _____ day of _____, 2002.

Notary Public

My commission expires: _____

WITNESS my hand and seal this x 6th day of x Sept., 2002.

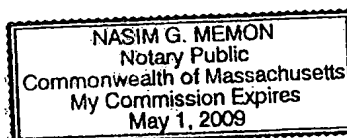
By: x Yan Chen
Yan Chen

State of Massachusetts)ss
County of Middlesex

Then personally appeared the above named Yan Chen and acknowledged the foregoing instrument to be his/her free act and deed, before me, this 6th day of Sept., 2002.

Nasim G. Memon
Notary Public

My commission expires: May 1, 2009



WITNESS my hand and seal this 10 day of September, 2002.

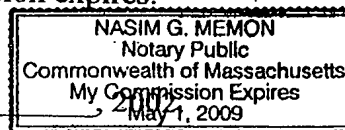
By: [Signature]
Xumei Zhao

State of Massachusetts
County of Middlesex)ss

Then personally appeared the above named Xumei Zhao and acknowledged the foregoing instrument to be his/her free act and deed, before me, this 10th day of Sept, 2002.

[Signature]
Notary Public
Mar 1, 2009

My commission expires:



WITNESS my hand and seal this _____ day of _____

By: _____
James E. Monahan

State of _____)
County of _____)ss

Then personally appeared the above named James E. Monahan and acknowledged the foregoing instrument to be his/her free act and deed, before me, this _____ day of _____, 2002.

Notary Public

My commission expires: _____

WITNESS my hand and seal this _____ day of _____, 2002.

By: _____
Xumei Zhao

State of _____)
County of _____)ss
County of _____)

Then personally appeared the above named Xumei Zhao and acknowledged the foregoing instrument to be his/her free act and deed, before me, this _____ day of _____, 2002.

Notary Public

My commission expires: _____

WITNESS my hand and seal this X 6 day of X SEPTEMBER, 2002.

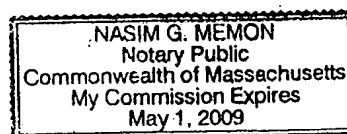
By: X John E Monahan
James E. Monahan
John
gm
9/6/02

State of Massachusetts
County of Middlesex)ss

Then personally appeared the above named James E. Monahan and acknowledged the foregoing instrument to be his/her free act and deed, before me, this 6th day of Sept, 2002.

Nasim G. Memon
Notary Public

My commission expires: May 1, 2009

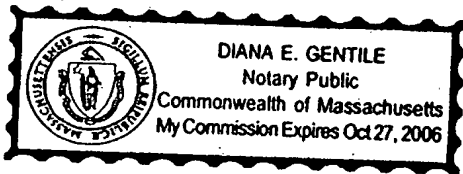


WITNESS my hand and seal this 1 day of April, 2004.

By: Shubhangi Kamatkar
Shubhangi Kamatkar

State of Massachusetts)
)ss
County of Middlesex)

Then personally appeared the above named Shubhangi Kamatkar and acknowledged the foregoing instrument to be his/her free act and deed, before me, this 1st day of April, 2004.



Diana C. Gentile
Notary Public

My commission expires: 10/27/2006

WITNESS my hand and seal this _____ day of _____, 2002.

By: _____
Manjula Gannavarapu

State of)
County of)ss

Then personally appeared the above named Manjula Gannavarapu and acknowledged the foregoing instrument to be his/her free act and deed, before me, this _____ day of _____, 2002.

Notary Public

My commission expires:_____

WITNESS my hand and seal this _____ day of _____, 2002.

By: _____
Shubanghi Kamatkar

State of _____)
County of _____)ss

Then personally appeared the above named Shubanghi Kamatkar and acknowledged the foregoing instrument to be his/her free act and deed, before me, this _____ day of _____, 2002.

Notary Public

My commission expires: _____

WITNESS my hand and seal this x 9th day of x September, 2002.

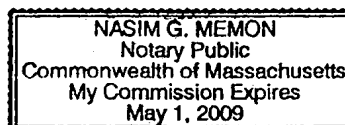
By: x [Signature]
Manjula Gannavarapu

State of Massachusetts
County of Middlesex)ss

Then personally appeared the above named Manjula Gannavarapu and acknowledged the foregoing instrument to be his/her free act and deed, before me, this 9th day of September, 2002.

[Signature]
Notary Public

My commission expires: May 1, 2009



WITNESS my hand and seal this X 10th day of X September, 2002.

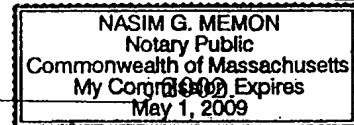
By: X Karen Glatt
Karen Glatt

State of Massachusetts
County of Middlesex)ss

Then personally appeared the above named Karen Glatt and acknowledged the foregoing instrument to be his/her free act and deed, before me, this 10th day of September, 2002.

Nasim G. Memon
Notary Public

My commission expires: May 1, 2009



WITNESS my hand and seal this _____ day of _____

By: _____
Sebastian Hoersch

State of _____)
County of _____)ss

Then personally appeared the above named Sebastian Hoersch and acknowledged the foregoing instrument to be his/her free act and deed, before me, this _____ day of _____, 2002.

Notary Public

My commission expires: _____

WITNESS my hand and seal this _____ day of _____, 2002.

By: Karen Glatt

State of _____)
)ss
County of _____)

Then personally appeared the above named Karen Glatt and acknowledged the foregoing instrument to be his/her free act and deed, before me, this ____ day of _____, 2002.

Notary Public

My commission expires: _____

WITNESS my hand and seal this 16th day of September, 2002.

By: X Sebastian Hoersch

State of Massachusetts) ss
County of Middlesex

Then personally appeared the above named Sebastian Hoersch and acknowledged the foregoing instrument to be his/her free act and deed, before me, this 16th day of September, 2002.

Notary Public

My commission expires: May 1, 2009

